Oregon Broadband

Christopher Tamarin

Oregon Business Development Department

February 2, 2016

Report to the Governor

"Electronic highways in the 21st century will move information at an unprecedented pace.

... Oregon's changing economy is becoming more information-intensive and our success in the Information Age depends on providing services that allow efficient access to and distribution of information…

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Quotation (continued)

- Rural economic development and educational opportunities will ultimately depend upon the quality of telecommunications systems

- Health care training, diagnosis, and analysis can be delivered and maximized statewide through telecommunications

- Educating our children and (re)training our work force will be enhanced by it

Quotation (continued)

- Full participation in an international [global] economic community requires a high quality telecommunications system

- Maintaining a quality environment and avoiding congestion depends in part on our ability to substitute information movement for people movement."

Source

TELECOMMUNICATIONS: OREGON'S NEXT TRAIL

Some Problems Today, Many Prospects Tomorrow

Report to Governor Roberts
prepared by
Task Force on Telecommunications
April 1991

http://library.state.or.us/repository/2009/200907281111202/index.pdf

Oregon Public Policy

- "…it is the goal of this state to promote access to broadband services for all Oregonians in order to improve the economy in Oregon, improve the quality of life in Oregon communities and reduce the economic gap between Oregon communities that have access to broadband digital applications and services and those that do not…"
[ORS 759.016(1)]

- "It is the policy of the State of Oregon to promote, facilitate and encourage activities, projects and businesses that improve Oregon's Internet Protocol network infrastructure, performance and connectivity to the Internet backbone network and World Wide Web for the benefit of Oregon's commercial, educational, governmental and individual users." (SJR 19 (2007))

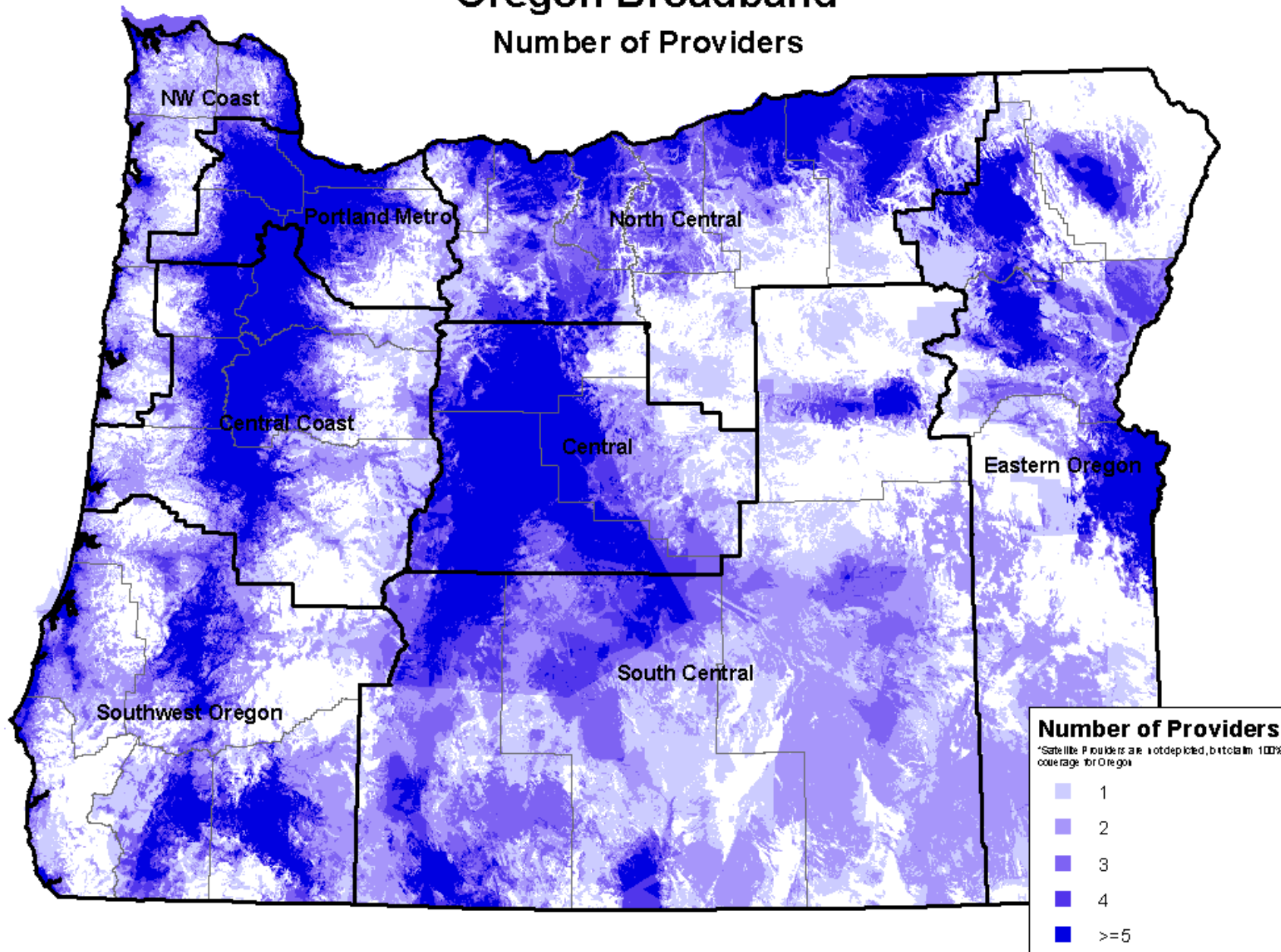business oregon
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Oregon Public Policy

- Public Safety: "It is the policy of the State of Oregon to encourage and support the rapid deployment of broadband telecommunications services in areas of the state where such services do not exist, to support redundancy of critical telecommunications assets in order to ensure homeland security protections in the state and to ensure that a secure conduit is available for emergency communications and public safety networks in all Oregon communities." [ORS 401.706]

- It is the policy of the State of Oregon to promote and facilitate activities by Oregon's health care and education communities and their telecommunications providers to develop a network model that provides standards for interoperability, establishes a peering point for all health care and education telecommunications in Oregon and establishes peering agreements among health care and education networks that contain payment structures." (SJR 20 (2007))
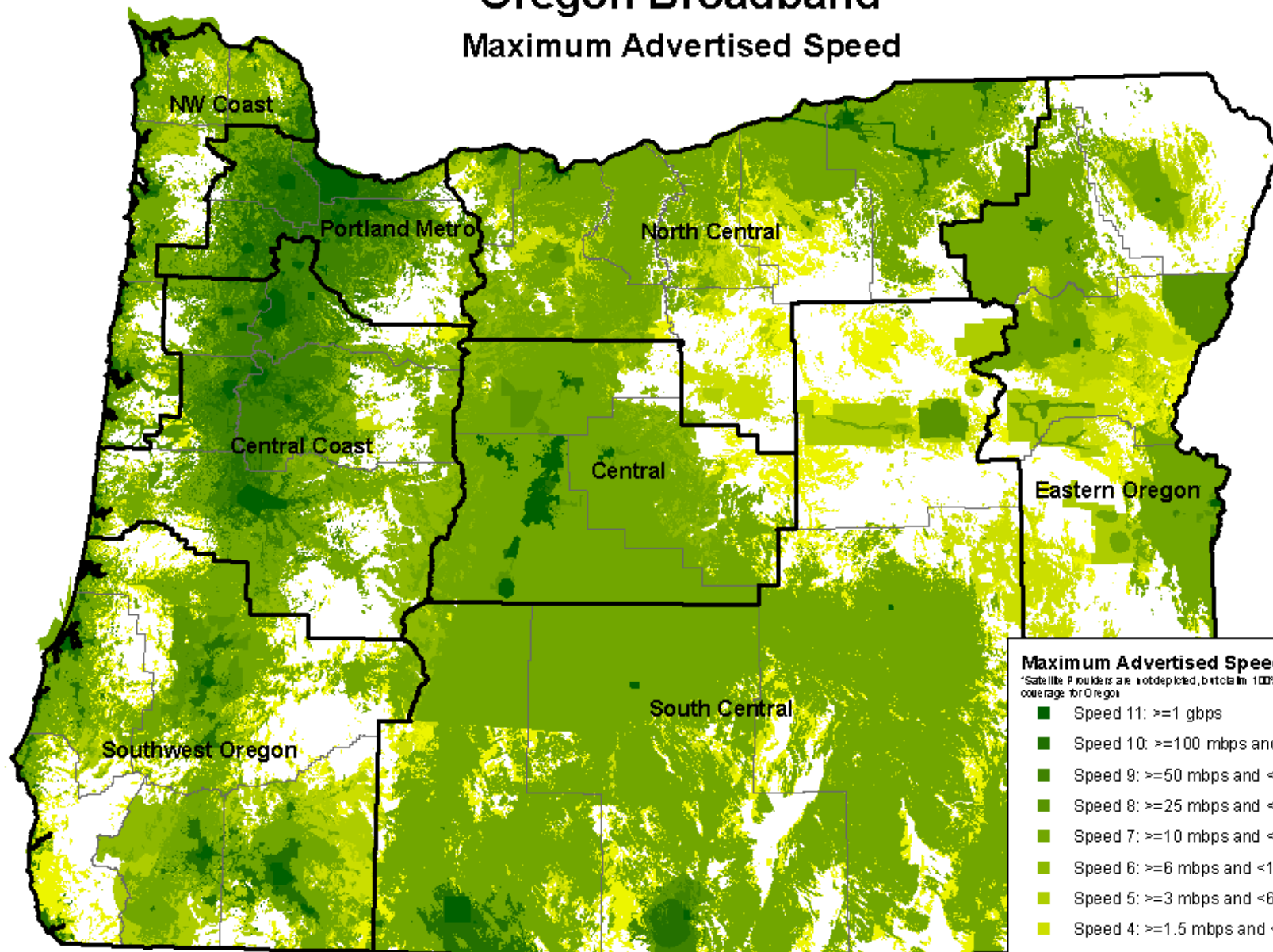
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Oregon Broadband
Number of Providers

NW Coast

Portland Metro

North Central

Central Coast

Central

Eastern Oregon

South Central

Southwest Oregon

Number of Providers

*Satellite Providers are not depicted, but claim 100% coverage for Oregon

1

2

3

4

>=5

Oregon Broadband
Maximum Advertised Speed

NW Coast

Portland Metro

North Central

Central Coast

Central

Eastern Oregon

South Central

Southwest Oregon

Maximum Advertised Speed
*Satellite Providers are not depicted, but claim 100% coverage for Oregon

- Speed 11: >=1 gbps
- Speed 10: >=100 mbps and <1 gbps
- Speed 9: >=50 mbps and <100 mbps
- Speed 8: >=25 mbps and <50 mbps
- Speed 7: >=10 mbps and <25 mbps
- Speed 6: >=6 mbps and <10 mbps
- Speed 5: >=3 mbps and <6 mbps
- Speed 4: >=1.5 mbps and <3 mbps
- Speed 3: >=768 kbps and <1.5 mbps
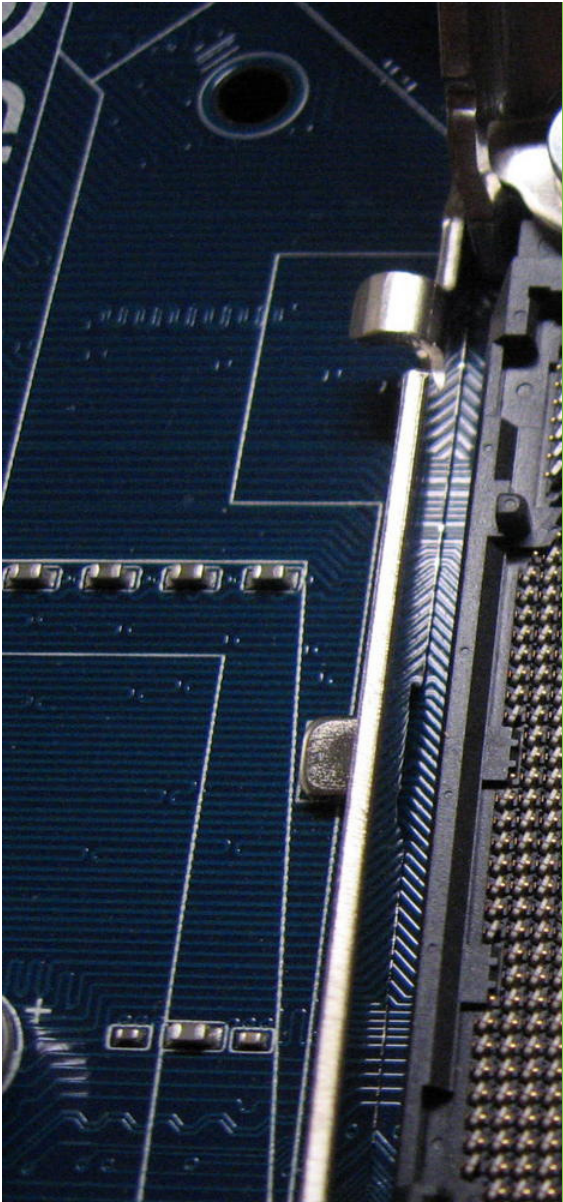- Speed 2: >200 kbps and <768 Kbps

Oregon Broadband Advisory Council Mission

- Encourage coordination and collaboration between organizations and economic sectors

- Leverage the development and utilization of broadband for education, workforce development and telehealth

- Promote broadband utilization by citizens and communities.

www.broadband-oregon.org

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Oregon Broadband Advisory Council Members

The council members represent Oregon's

- Cities
- Counties
- Telecommunications service providers
- Tribes
- Educators
- Economic development organizations
- Public safety agencies
- Healthcare providers
- Office of the State Chief Information Officer
- Public Utility Commission
- State House of Representatives
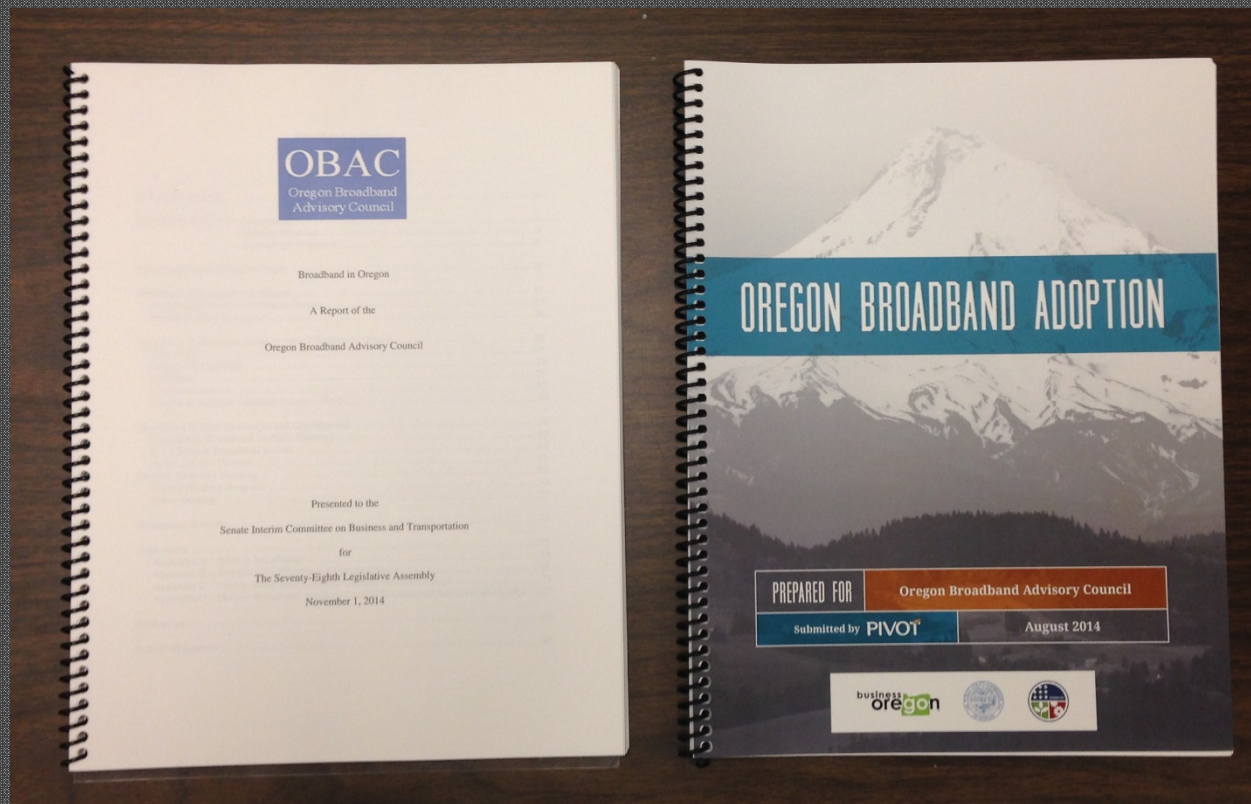- State Senate

2016 OBAC Agenda

- Community Broadband Strategic Planning
- Broadband Access K-12 Schools
- Public Safety – FirstNet
- Disaster Recovery Planning
- Federal Funding for Broadband
- Cyber Security

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OBAC Reports

www.broadband-oregon.org

Infrastructure Programs

- Brownfields Program
- Community Development Block Grant
- Industrial Development
- Industrial Site Certification
- Marine Navigation Improvement
- Port Revolving Loan
- Port Planning & Marketing
- Safe Drinking Water
- Seismic Rehabilitation
- Special Public Works
- Telecommunications
- Water/Wastewater

Community Success Stories

New Food Bank Facility Will Help More South Coast Residents Deal with Hard Times
A successful partnership plus Community Development Block Grant make new food bank warehouse a reality for Coos County.
READ MORE ▶

2015 BROADBAND ADVISORY COUNCIL MEETINGS

Date/Time	Location	Resources
January 22 9:15a-12:15p	Local Government Center 1201 Court St NE Salem, OR 97301 Conf Room 306	Approved Minutes PDF Meeting Agenda PDF OUS Cyber Security PDF Dept Ed E-Rate PDF OR School Survey Results PDF OEM Workshop PDF 2015 Bills & Resolutions PDF
February 26 9:15a-12:15p	Local Government Center 1201 Court St NE Salem, OR 97301 Conf Room 306	Approved Minutes PDF Meeting Agenda PDF Education Super Highway presentation PDF Bills and Resolutions PDF FEMA Presentation PDF FEMA Fact Sheet PDF
March	No Meeting	
April 23 9:15a-12:15p	Local Government Center 1201 Court St NE Salem, OR 97301 Conf Room 306	Approved Minutes PDF Meeting Agenda PDF 911 and Broadband PDF ESH Presentation PDF 2015 Bills & Resolutions PDF
May 28 9:15a-12:15p	Local Government Center 1201 Court St NE Salem, OR 97301 Conf Room 306	Approved Minutes PDF Meeting Agenda PDF 2015 Bills and Resolutions PDF FirstNet Presentation PDF Providence Presentation PDF
June 25 9:15a-12:15p	Local Government Center 1201 Court St NE Salem, OR 97301 Conf Room 306	Approved Minutes PDF Meeting Agenda PDF Comments to BOC PDF OCHIN Presentation PDF
July 23	Conference Call	Approved Minutes PDF

Broadband Adoption by Region

Broadband Status..	Total	NW Coast	Portland	Central Coast	SW Oregon	North Central	Central Oregon	South Central	Eastern
Broadband at home	82%	78%	85%	83%	79%	76%	83%	69%	67%
Not-at-home Internet User	4%	6%	4%	2%	4%	3%	5%	6%	4%
Dial-up	1%	3%	1%	1%	2%	1%	2%	1%	4%
Internet Non-user	13%	14%	10%	13%	15%	20%	10%	24%	25%

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Project Status

▸ **Group 2 Planning**
Communities have completed plans

▸ **Group 1 Planning**
Communities have completed plans

The Oregon Broadband Outreach and Strategic Planning Project is managed by the Public Utility Commission, Business Oregon and the Broadband Advisory Council to promote broadband strategic planning and accelerate broadband development across Oregon.

The project is part of the State Broadband Data and Development Program and has been funded through an American Recovery and Reinvestment Act (ARRA) grant administered through the National Telecommunications and Information Administration.

Eight Oregon communities have been selected to develop broadband strategic plans that will support the adoption and utilization of broadband in their respective community.
>>Learn more about project activities

Check this site often to get up-to-date information on the project status and to find the resources and tools for the selected communities.

Oregon Broadband Planning Outreach promotional video

broadband planning Oregon Project

www.oregonbroadbandplanning.org

Project Resources
Planning Template
Resources
Participating Communities
About the Project
Contact Us

Engaged Communities
Community Plans
Learning Resources

The Oregon Broadband Outreach & Strategic Planning Project is managed by the Public Utility Commission, Business Oregon and Broadband Advisory Council to promote broadband strategic planning and accelerate broadband development across Oregon.

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Project Resources

Project Team
Engaged Communities

Community Plans | Learning Resources | Monmouth/Independence | Klamath/Lake Counties | City of Myrtle Point | City of Sherwood

Engaged Communities

Group 1 Communities
City of Eugene
City of Sandy
City of The Dalles - Wasco County   Q-Life
Warm Springs Indian Reservation
Strategic plans were completed in 2013.

Group 2 Communities
Monmouth-Independence
Klamath and Lake Counties
City of Myrtle Point
City of Sherwood
Strategic plans were completed in 2014.
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Project Resources
Planning Template
Resources
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The Oregon Broadband Outreach & Strategic Planning Project is
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and accelerate broadband development across Oregon.

Lessons Learned

- Power of local champions

- Power of local engagement

- Value of awareness

- Value of a structured process to convene community leaders

- Value of public libraries

- Value the time of volunteers

www.oregonbroadbandplanning.org
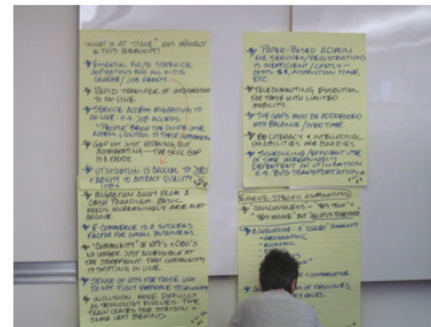
OREGON BROADBAND MAPPING PROJECT BETA

Bookmarks   **Search**   **Print**   **Feedback**   **Wi-Fi+**   **Main Site**

Broadband Dashboard

| Coverage | Providers | Speed Test | Help |

Please select coverage/service below:

Coverage (Satellite not included)

○ No Service Reported

○ Number of Providers

○ Maximum Speed Available

Service by Broadband Technology

⦿ Individual Broadband Technology Coverage

| Mobile Wireless ▾ |

▮ Services that are broadcasted via a cellular signal to a mobile receiver.

Service by Provider Broadband Technology

○ Individual Provider Coverage

Turn off coverage/service selection

○ None

Set coverage/service transparency

More |・・・・・・| Less
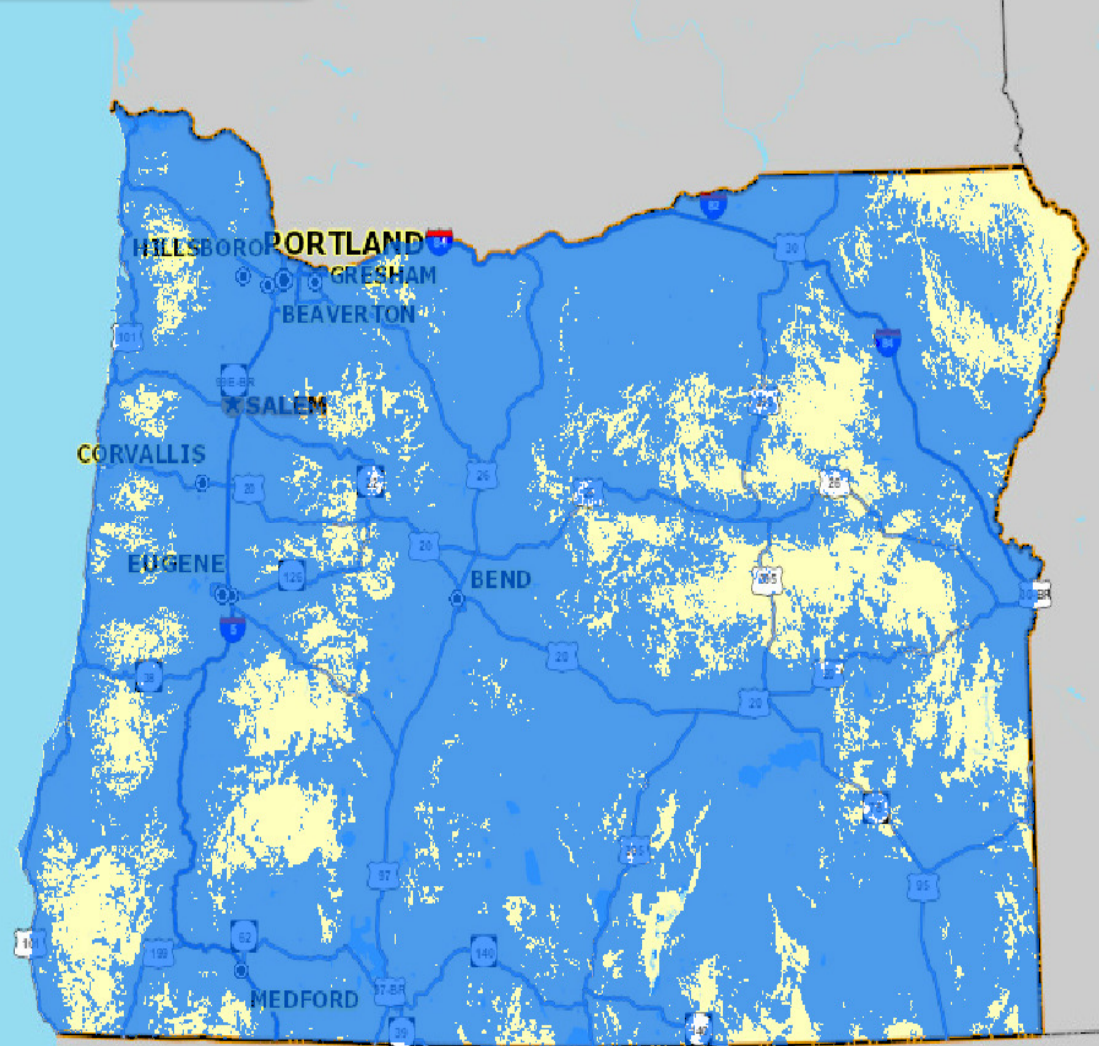
Speed Test Results

○ Display On   ⦿ Display Off

Feedback Results

[FAQs]   [Coverage Tutorial]

[Glossary]

HILLSBORO **PORTLAND**
GRESHAM
BEAVERTON

★SALEM

CORVALLIS

EUGENE   BEND

MEDFORD

200 km

100 mi

OREGON BROADBAND MAPPING PROJECT BETA

Bookmarks   Search   Print   Feedback   Wi-Fi+   **Main Site**

Broadband Dashboard

| Coverage | Providers | Speed Test | Help |

Find Providers and Services by Municipality

- Click to Select Municipality - ▼

Providers

LS Networks ●

North-State Telephone Co. ●

QualityLife Intergovernmental Agency ●

SawNet ●

SawNet ●

Services Available

Cable Modem—DOCSIS 3.0

DSL Asymmetric

DSL Symmetric

Optical Carrier/Fiber to the End User

Other Copper Wireline

Clear   **FAQs**   **Providers Tutorial**

ROWENA

ORTLEY

RIVER RD

CHERRY HEIGHTS

CHENOWETH   THE DALLES

SKYLINE RD

OLNEY RD

DRY HOLLOW RD

4 km

Search
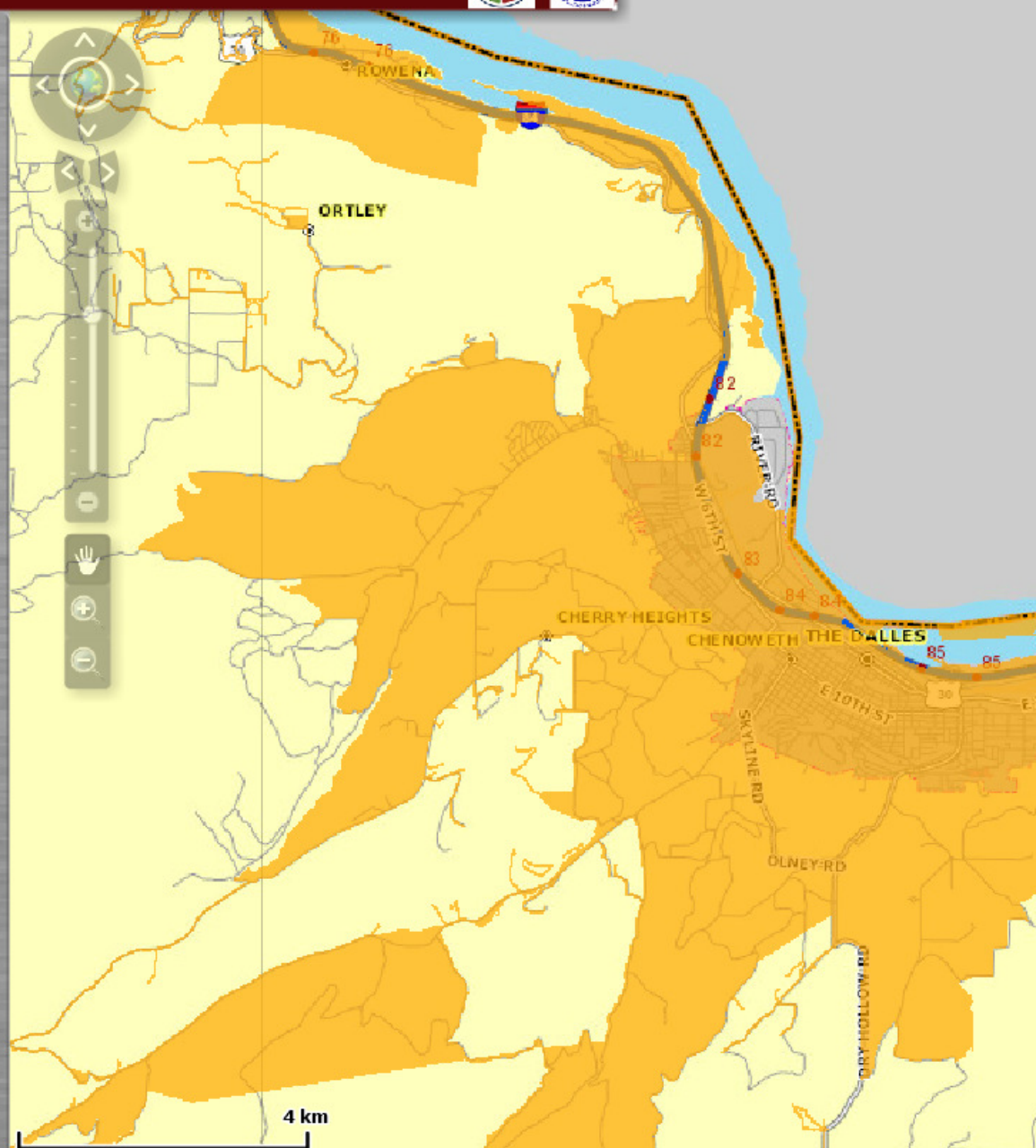
OCHIN BROADBAND NETWORK SERVICES

Home   FCC-Subsidized Programs   OCHIN Medical-Grade Network

Video Conferencing

OCHIN Medical-Grade Network

A reliable, scalable, and trusted broadband connection is an essential part of the delivery of health IT solutions. The **OCHIN Medical-Grade Network** is a means by which our services and solutions are deployed.

This is a medical-grade, nation-wide network that is a privately managed and monitored, fully provisioned service. It is intended to serve as the bridge between network members (clinicians, patients, administrators, and the network) to a central hosting system for the purpose of providing access to a suite of OCHIN hosted products.

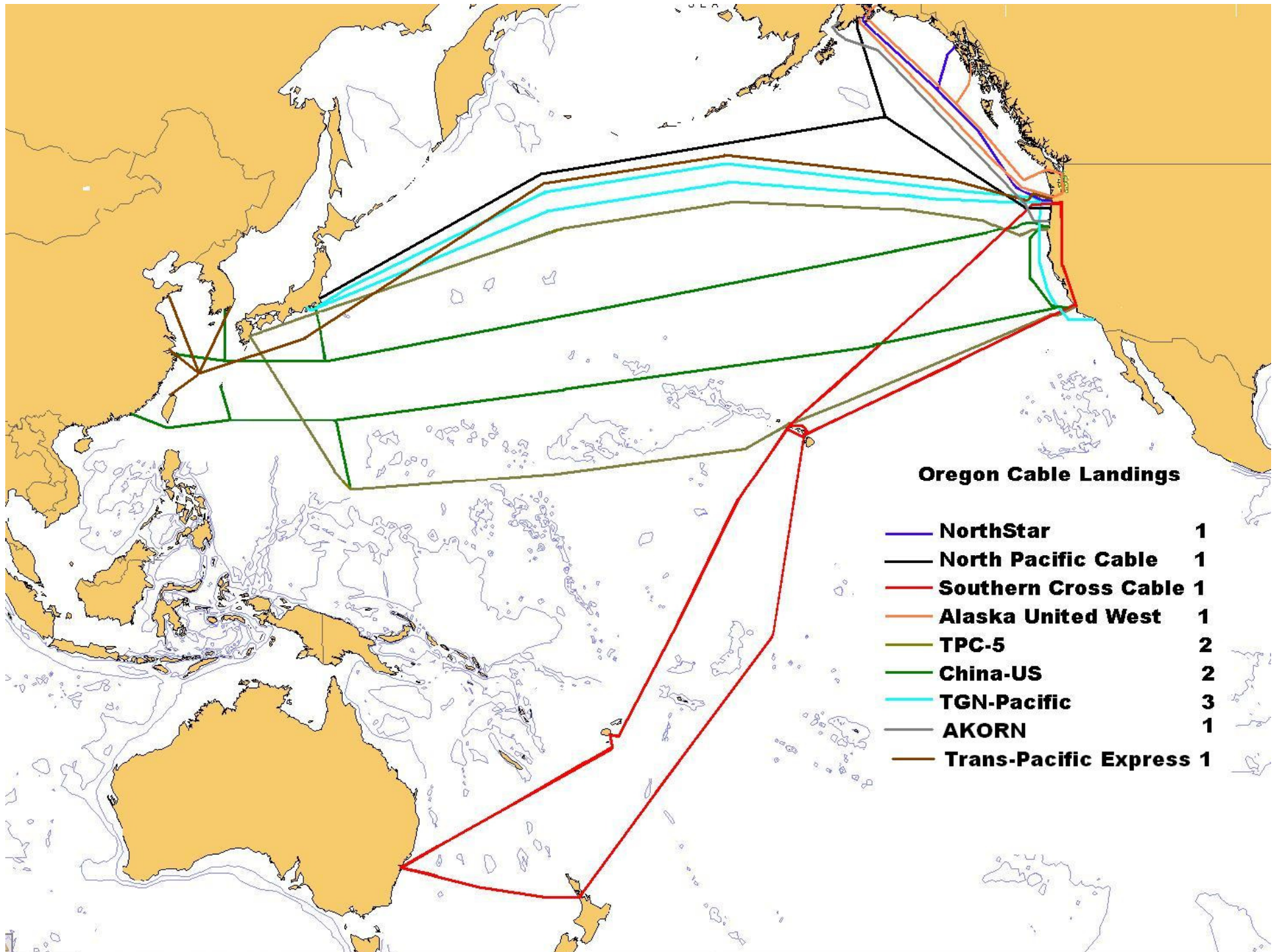**This connection exists *outside of the public internet*, giving you faster, more reliable access.**

The Power of a Network

Being part of our network means joining a community of health care providers and industry leaders committed to integrated, patient-centered care for all.

View Our Members Already Connected on the Network

CONTACT US

www.ochin.org

Oregon Cable Landings

Cable	Count
NorthStar	1
North Pacific Cable	1
Southern Cross Cable	1
Alaska United West	1
TPC-5	2
China-US	2
TGN-Pacific	3
AKORN	1
Trans-Pacific Express	1

2015 Oregon Legislative Session

Bills were passed into law relating to broadband telecommunications in the areas of

- 911 System enhancements [HB 2426]
- Study strategies for broadband deployment, adoption and utilization   [HB 3274]
- Taxation and central assessment [SB 611]
- Health Information Technology [HB 2294]
- Telemedicine reimbursement [SB 144]
- Enterprise Zone E-commerce expansion [HB 2643]
- K-12 School infrastructure funding [SB 447]
- Ports and telecommunications infrastructure [HB 3104]
- Oregon Broadband Advisory Council life extended to January 2020   [SB 140]

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OREGON CONNECTIONS TELECOMMUNICATIONS CONFERENCE

October 22-23, 2015 - Hood River, Oregon

20 Years
of Oregon Connections

Broadband
Comes of Age

THANK YOU TO ALL WHO ATTENDED AND SUPPORTED THIS YEAR'S TWENTIETH OREGON CONNECTIONS TELECOMMUNICATIONS CONFERENCE ! ! !

WE HOPE TO SEE YOU AGAIN NEXT YEAR IN HOOD RIVER, OCTOBER 20 AND 21, 2016.

The **Oregon Connections Telecommunications Conference** draws attendees from all regions of the state to share ideas, experiences and knowledge about telecommunications.

The 2015 conference presenters and attendees explored aspects of Broadband as it comes of age twenty years after the commercialization of the Internet. Program topics will include cyber-security, smart communities, challenge of infrastructure, Internet and Broadband Public Policy, Broadband enabled applications, and the status of Broadband in Oregon.

"Now this is not the end. It is not even the beginning of the end. But it is, perhaps, the end of the beginning."

- Winston Churchill

Theme	**"20 Years of Oregon Connections: Broadband Comes of Age"**
What	20th annual Oregon Connections Telecommunications Conference
When	Thursday and Friday, October 22 - 23, 2015
Agenda	See **2015 Conference Agenda.**
Presentations	See **2015 conference presentations.**
Where	Hood River Inn Hood River, OR Best Western Hood River Inn
Who	See **who came** to the 2015 conference!

www.oregonconnections.info

A Work in Progress

- Broadband infrastructure will always be a work in progress as technologies and applications change over time.

- What constitutes broadband, e.g., transmission speeds of thousands of bits per second, millions of bits per second, or billions of bits per second will be a moving target.

- The Internet is emerging as **the** global platform for communication, business, government, education, information storage and distribution, and entertainment.

- Competitive high-speed access to the Internet and telecommunications networks is essential for Oregon's institutions, businesses and individual citizens.

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Thank you.

Christopher Tamarin

Telecommunications Strategist

Oregon Business Development Department

121 SW Salmon Street, Suite 205

Portland, Oregon 97204

503 508-0178

christopher.tamarin@oregon.gov

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